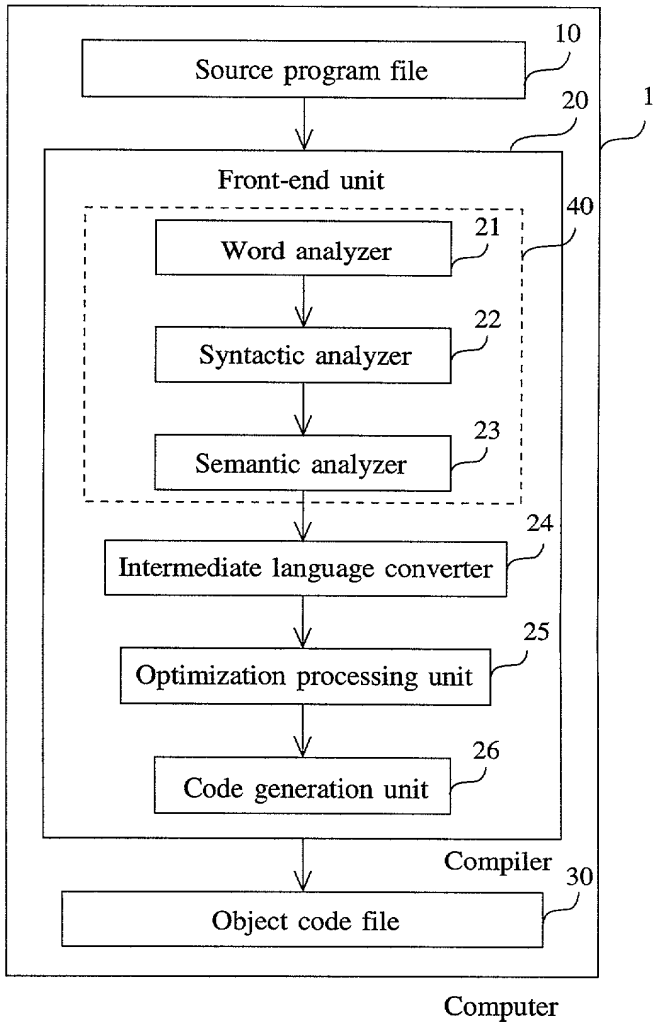
Source program file
10
1
20
Front-end unit
40
Word analyzer
21
Syntactic analyzer
22
Semantic analyzer
23
Intermediate language converter
24
Optimization processing unit
25
Code generation unit
26
Compiler
Object code file
30
Computer

Fig.1

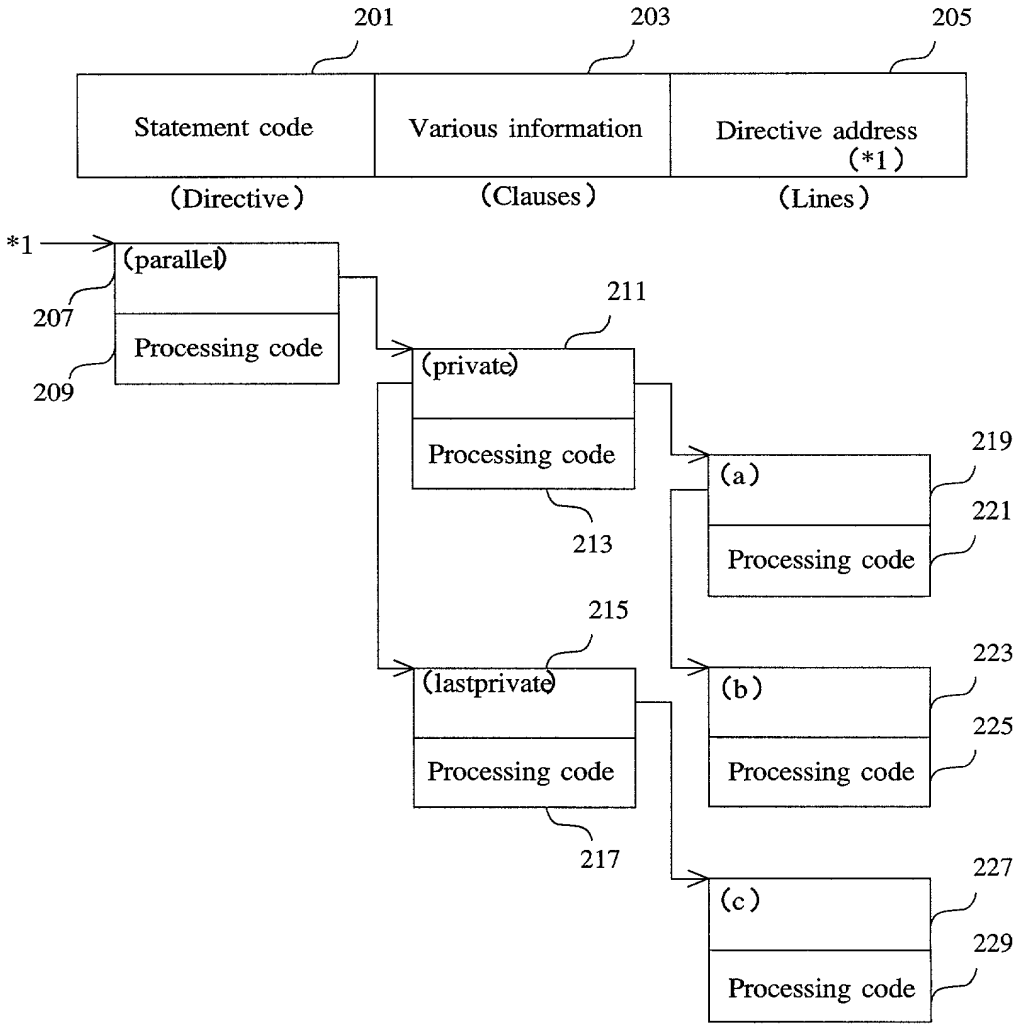
201
203
205
Statement code
Various information
Directive address
(*1)
(Directive)
(Clauses)
(Lines)
*1
(parallel)
207
Processing code
209
211
(private)
Processing code
213
219
(a)
221
Processing code
215
(lastprivate)
Processing code
217
223
(b)
225
Processing code
227
(c)
229
Processing code

Fig.2

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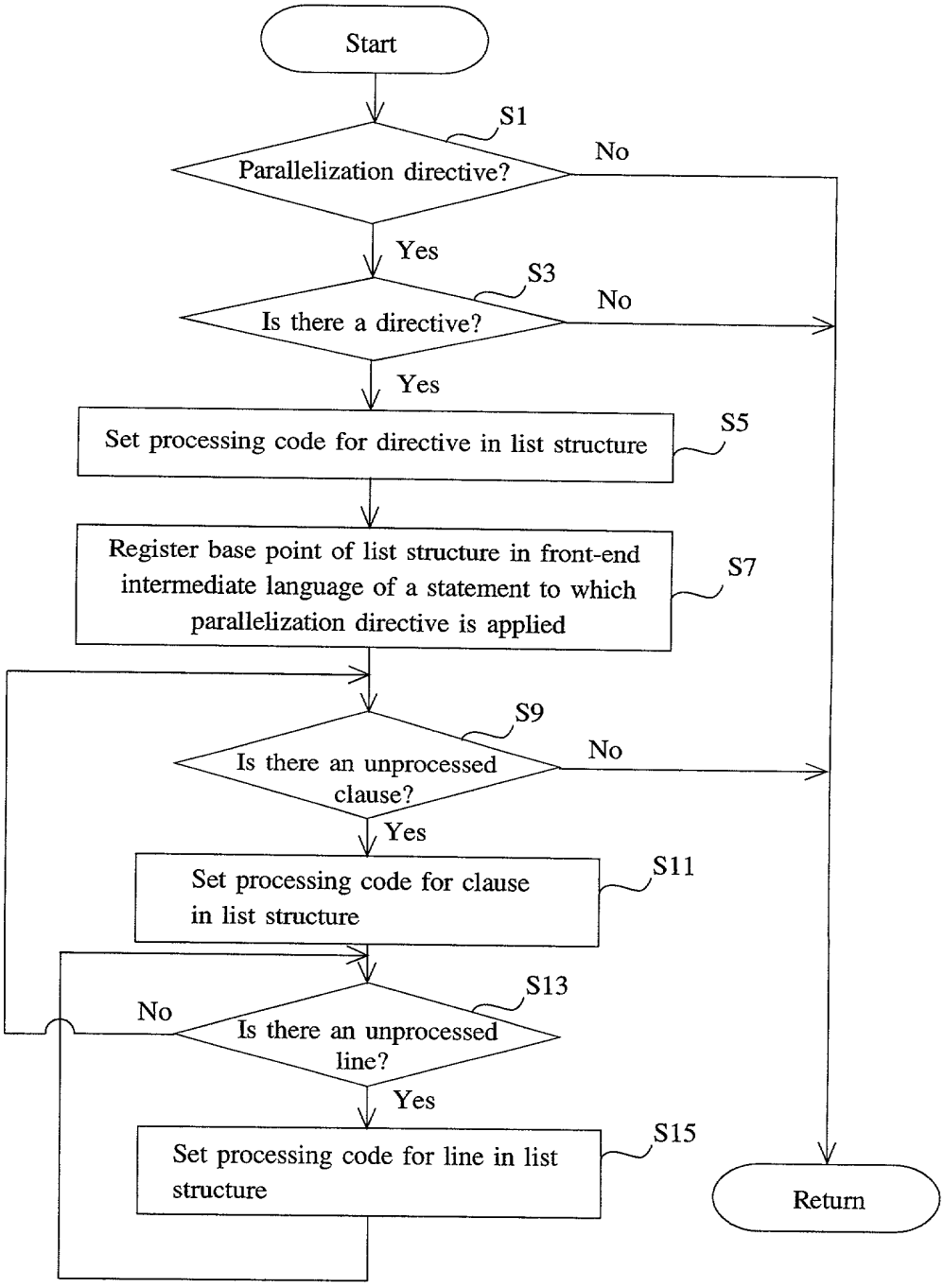

Fig.3

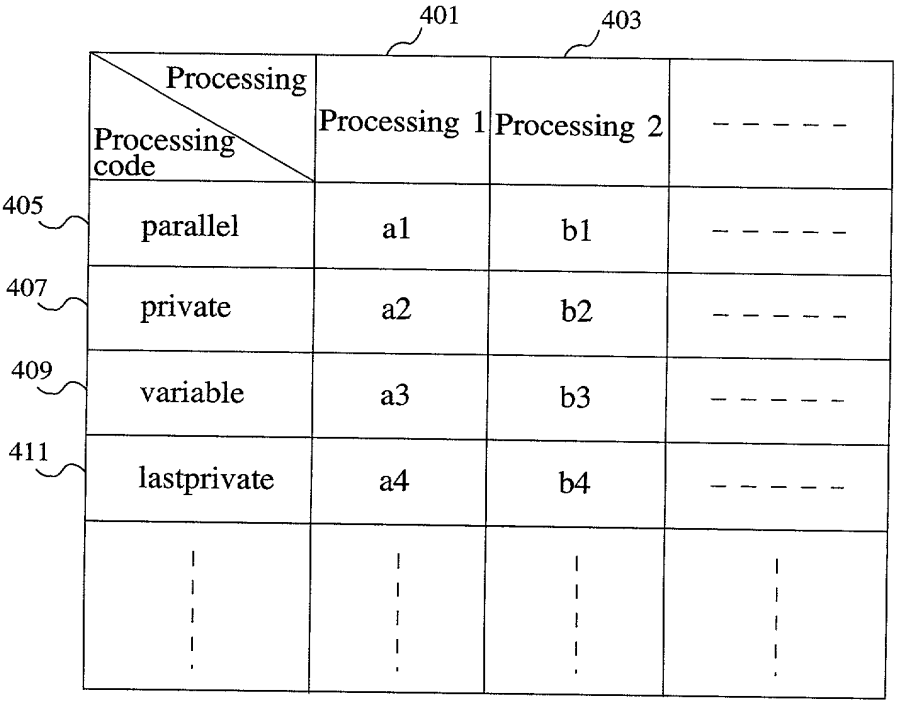
401
403
Processing
Processing code
Processing 1
Processing 2
405
parallel
a1
b1
407
private
a2
b2
409
variable
a3
b3
411
lastprivate
a4
b4

Fig.4

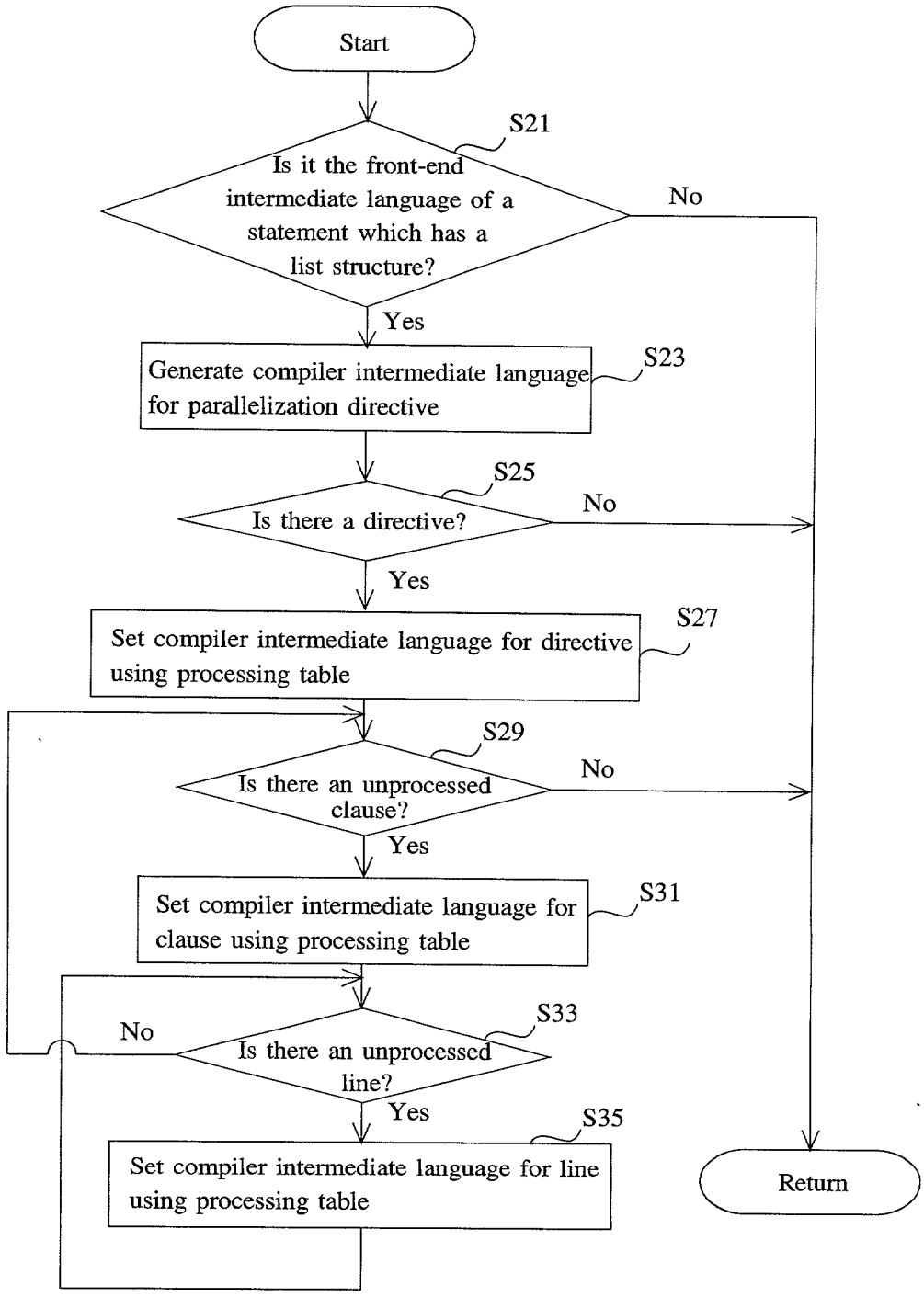
Start
S21
Is it the front-end intermediate language of a statement which has a list structure?
No
Yes
Generate compiler intermediate language for parallelization directive
S23
S25
Is there a directive?
No
Yes
Set compiler intermediate language for directive using processing table
S27
S29
Is there an unprocessed clause?
No
Yes
Set compiler intermediate language for clause using processing table
S31
S33
No
Is there an unprocessed line?
Yes
S35
Set compiler intermediate language for line using processing table
Return

Fig.5